· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)
Notice of Allowability	, pp. oation its	
	10/634,867	KONG ET AL.
	Examiner	Art Unit
	Khanh B. Duong	2822
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSED in) or other appropriate commu RIGHTS. This application is s	this application. If not included inication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the amendment filed</u>	on March 12, 2007.	
2. \boxtimes The allowed claim(s) is/are $\underline{13,16-22,24-33,44}$ and $\underline{47-52}$.		•
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 		or (f).
Certified copies of the priority documents have		n No. 00/927 274
Copies of the certified copies of the priority do	• •	
	ocuments have been received	in this national stage application from the
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv		
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.	
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Review	(PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	_•	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or	in the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the pLOGICAL MATERIAL.
Attachment(s)	- -	
1. Notice of References Cited (PTO-892)		ormal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ımmary (PTO-413), Mail Date
3. Information Disclosure Statements (PTO/SB/08),		Amendment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance
C. Diological Material	9.	
		Mary Wilczewski Primary Examiner

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DETAILED ACTION

Response to Amendment

This Office Action is in response to the amendment filed on March 12, 2007.

Accordingly, claim 13 was amended.

Currently, claims 13, 16-22, 24-33, 44 and 47-52 remain pending.

Allowable Subject Matter

Claims 13, 16-22, 24-33, 44 and 47-52 are allowed.

The following is an examiner's statement of reasons for allowance: none of the prior art of record, taken alone or in combination, fairly shows or suggests all the limitations as claimed.

Re claim 13, none of the prior art of record discloses the following limitations in combination with the rest of the limitations in the claim: forming a contact hole extending through the insulating layer and exposing the aluminum or aluminum alloy material of the gate pad; performing an annealing process; depositing using a sputtering process a third conductive layer formed of an indium zinc oxide (IZO) layer; and patterning the third conductive layer to form a conductive pattern directly contacting the aluminum or aluminum alloy material of the gate pad in the contact hole, wherein the sputtering process is performed at a temperature below 200° C, wherein the annealing process is performed immediately before depositing the third conductive layer.

Re claim 19, none of the prior art of record discloses the following limitations in combination with the rest of the limitations in the claim: forming a contact hole extending through the passivation layer and the gate insulating layer and exposing the aluminum or aluminum alloy material of the gate pad; depositing a third conductive layer formed of an indium

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zinc oxide (IZO) layer over the passivation layer; and patterning the third conductive layer to form a redundant gate pad directly contacting the aluminum or aluminum alloy material of the gate pad through the contact hole.

Re claim 44, none of the prior art of record discloses the following limitations in combination with the rest of the limitations in the claim: forming a contact hole extending through the insulating layer and exposing the aluminum or aluminum alloy material of the gate pad; depositing a third conductive layer formed of an indium zinc oxide (IZO) layer; and patterning the third conductive layer to form a conduction pattern directly contacting the aluminum or aluminum alloy material of the gate pad in the contact hole, further comprising, preheating the passivation layer, the silicon nitride layer and the exposed gate pad before the forming the third conductive layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh B. Duong whose telephone number is (571) 272-1836. The examiner can normally be reached on 10:00-6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith, can be reached on (571) 272-2429. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KBD

Mary Wilczewski Primary Examiner